

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/830,089	04/23/2004	Craig Jordan	50229-436	7583	
McDemott, W	7590 09/26/200 GIL& Emery	8	EXAM	IINER	
600 13th Street, N.W.			BELYAVSKYI, MICHAIL A		
Washington, I	OC 20005-3096	005-3096		PAPER NUMBER	
			1644		
			MAIL DATE	DELIVERY MODE	
			09/26/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Applicant(s)		
JORDAN, CRAIG		
Art Unit		
1644		
	JORDAN, CRAIG	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

eamed	patent	tenn :	acijustine	ant. c	ee 37	CFR	1.704(D).

Status			
2a)□	Responsive to communication(s) filed on 25 July 2008 This action is FINAL. 2b) This action i Since this application is in condition for allowance exce closed in accordance with the practice under Ex parte	is non-final. ept for formal matters, prosecution as to the m	nerits is
Disposit	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) <u>11-92</u> is/are pending in the application. 4a) Of the above claim(s) <u>11-22, 23-57, 67-71, 73-75.</u> Claim(s) is/are allowed. Claim(s) <u>23.56-66, 72 and 76</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election		
Applicati	ion Papers		
10)	The specification is objected to by the Examiner. The drawing(s) filed on is/are: a) accepted or Applicant may not request that any objection to the drawing(Replacement drawing sheet(s) including the correction is red The oath or declaration is objected to by the Examiner.	(s) be held in abeyance. See 37 CFR 1.85(a). quired if the drawing(s) is objected to. See 37 CFR	
Priority (under 35 U.S.C. § 119		
a)	Acknowledgment is made of a claim for foreign priority □ All b □ Some * c □ None of: 1.□ Certified copies of the priority documents have the complex of the priority documents have the complex of the priority documents have the complex of the certified copies of the priority documents have the complex of the certified copies of the priority documents of the certified copies of the priority documents of the certified copies of the priority documents of the certified copies of the certified copies of the priority documents of the certified copies of th	been received. been received in Application No uments have been received in this National St Rule 17.2(a)).	age
Attachmen	t(s)		
2) Notice 3) Information	ze of References Cited (PTO-892) ee of Draftsperson's Patent Drawing Review (PTO-948) matton Disclosure Stattement(s) (PTO/SBr08) r No(s)/Mail Date	4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) Notice of Informal Patent Application 6) Other:	
S. Patent and T	rademark Office	man. Part of Bones No Mail Date	20090017

Application/Control Number: 10/830,089 Page 2

Art Unit: 1644

DETAILED ACTION

 The examiner of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Michail Belvavskyi, Group Art Unit 1644, Technology Center 1600.

Claims 11-92 are pending.

2. Applicant's election with traverse of Group IV, claims 23, 58-66 in the reply filed on 07/25/08 is acknowledged Applicant traverse the Restriction Requirement on the grounds that the search of all Groups together would not constitute a serious search burden on the examiner and that search of the claims of Group IV would provide useful information for the claims of other Groups.

This is not found persuasive because the MPEP 803 (August 2001) states that "For purposes of the initial requirement, a serious burden on the examiner may be prima facie shown if the examiner shows by appropriate explanation either separate classification, separate status in the art, or a different field of search". The Restriction Requirement enunciated in the previous Office Action meets this criteria and therefore establishes that serious burden is placed on the examiner by the examination of more than one Group. The Inventions are distinct for reasons elaborated in paragraphs 3-5 of the previous Office Action and above

The requirement is still deemed proper and is therefore made FINAL.

However, upon further consideration, the prior art search has been extended to include claims of non-elected group VII.

Claims 11-22, 23-57, 67-71, 73-75,77-92 are withdrawn from further consideration by the Examiner, 37 C.F.R. § 1.142(b) as being drawn to nonelected inventions.

Claims 23, 58-66, 72 and 76 drawn to a method for impairing cancerous progenitor cells in a patient comprising administering to said patient a composition comprising an antibody and a cytotoxic agent, wherein said composition binds selectively to CD123 are under consideration in the instant application. Application/Control Number: 10/830,089 Page 3

Art Unit: 1644

2. The specification on page 1, should be amended to reflect the status of the parent 09/799,100 application.

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention

4. Claims 23, 58 and 60-66 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method for impairing cancerous progenitor cells, which express CD123 in a patient, comprising administering a composition comprising a conjugate, wherein the conjugate comprises a cytotoxic agent and an antibody that binds to Cd123 does not reasonably provide enablement for a method for impairing cancerous progenitor cells, which express CD123 in a patient, comprising administering a composition comprising an antibody and a cytotoxic agent, wherein said antibody selectively binds to CD123.

The specification does not enable any person skilled in the art to which it pertains, or with which it most nearly connected, to make and use the invention commensurate in scope with these claims.

The specification does not enable one of skill in the art to practice the invention as claimed without undue experimentation.

It is noted that during patent examination, the pending claims must be "given the broadest reasonable interpretation consistent with the specification." See MPEP 2100. Thus, the instant claim 23 can read on a composition comprising two separate ingadients. i.e. anti-CD123 antibodies and cytotoxic agent.

The Specification disclosed examples wherein it was shown that CD123 expressed mainly on primitive leukemia but not normal cells. (see example 1-7 in particular). Based on selective expression of CD123 on said cells it is proposed to used a pharmaceutical composition comprising CD123 specific antibody and cytotoxic agent to impair cancerous progenitor cell. It is well known in the art that in order to target and impair a specific cells expressing a specific receptor an immunotoxins or immunoconjugate comprising a specific antibody and a cytotoxic agent should be used (see for example US Patent 4,340,535). In said immunoconjugate, a specific antibody are used as a delivery moiety to bring a cytotoxic agent, i.e. an effector moiety, in close proximity with the targeted cells. In the instant case, the specification does not adequately teach and there is no art recognized effects of anti-CD123 antibody as an

Application/Control Number: 10/830,089

Art Unit: 1644

effector moiety to impair cancerous progenitor cells. Thus it is unclear how cytotoxic agent, that is not attached to said anti-CD123 antibody can specifically target and impair cancerous progenitor cells, which express CD123, but do not significantly express CD131.

Thus, Applicant has not provided sufficient guidance to enable one skill in the art to use claimed method for impairing cancerous progenitor cells, which express CD123, comprising administering a composition of two separate molecules, i.e. an antibody which binds selectively to CD123 and a cytotoxic agent in manner reasonably correlated with the scope of the claims.

The scope of the claims must bear a reasonable correlation with the scope of enablement. In re Fisher, 166 USPQ 18(CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute.

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornun, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 645 (CCPA 1962).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Art Unit: 1644

6. Claims 23, 58-66, 72 and 76 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-6 of U.S. Patent No.6,733,743.

Although the conflicting claims are not identical, they are not patentably distinct from each other because 1-6 of U.S. Patent No.6,733,743 recites a method of impairing a hematologic cancer progenitor cells that expresses CD123, comprising contacting said cells with a composition comprising an antibody and a cytotoxic agent, wherein said antibody binds selectively to CD123.

7. No claim is allowed.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is 571/272-0840. The examiner can normally be reached Monday through Friday from 9.00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen O'Hara can be reached on 571/272-0878.

The fax number for the organization where this application or proceeding is assigned is 571/273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michail A Belyavskyi/ Primary Examiner, Art Unit 1644